## **AMENDMENT**

Please amend the application, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents.

## In the Claims

- 1-20. (Cancelled)
- (Currently amended) A retroviral vector delivery system capable of selectively 21. transducing human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells, wherein the retroviral vector delivery system comprises a first nucleotide sequence [coding for] encoding at least part of an envelope protein a rabies G protein or mutant, variant, derivative or fragment thereof; and one or more other nucleotide sequences that ensure transduction of a target neuronal cell by the retroviral vector delivery system; wherein the first nucleotide sequence is heterologous with respect to at least one of the other nucleotide sequences; wherein the retroviral delivery system is from the group consisting of MLV, HIV and EIAV vectors; and wherein the first nucleotide sequence codes for at least part of a rabies G protein or a mutant, variant, derivative, or fragment thereof that is capable of recognising the target cell; and wherein the first nucleotide sequence rabies G protein or mutant, variant, derivative, or fragment thereof pseudotypes the retroviral vector delivery system whereby the retroviral vector delivery system selectively transduces neuronal cells at a higher transduction efficiency than in non-neuronal cells; neuronal cells transduced with a retroviral vector delivery system pseudotyped with a VSV-G protein.
  - 22. (Currently amended) [[A]] <u>The</u> retroviral <u>vector</u> delivery system according to claim 21 wherein the first nucleotide sequence <u>eodes for encodes</u> all of a rabies G protein or a mutant, variant, derivative or fragment thereof.
  - 23. (Currently amended) [[A]] <u>The</u> retroviral <u>vector</u> delivery system according to claim 21 wherein at least one of the other nucleotide sequences is from a lentivirus or an oncoretrovirus.
  - 24. (Currently amended) [[A]] <u>The</u> retroviral <u>vector</u> delivery system according to claim 21 wherein the other nucleotide sequences are from a lentivirus or an oncoretrovirus.
  - 25. (Currently amended) [[A]] <u>The retroviral vector delivery system according to claim 21 wherein the other nucleotide sequences are from EIAV.</u>

- 26. (Currently amended) [[A]] <u>The</u> retroviral <u>vector</u> delivery system according to claim 21 wherein the retroviral <u>vector</u> delivery system comprises at least one nucleotide <u>sequence</u> of interest.
- 27. (Currently amended) [[A]] <u>The</u> retroviral <u>vector</u> delivery system according to claim 26 wherein the nucleotide <u>sequence</u> of interest has a therapeutic effect or <u>eodes for encodes</u> a protein that has a therapeutic effect.
- 28. (Currently amended) A viral particle obtainable from the retroviral <u>vector</u> delivery system according to claim 21.
- 29. (Currently amended) A retroviral vector wherein the retroviral vector is the retroviral vector delivery system according to claim 21 or is obtainable therefrom
- 30. (Currently amended) An isolated cell transduced with [[a]] the retroviral vector delivery system according to claim 21, or a viral particle obtainable therefrom.
- 31. (Currently amended) A pharmaceutical composition comprising a retroviral vector delivery system according to claim 21 and a pharmaceutically acceptable diluent.
- 32. (Currently amended) A method of selectively delivering a nucleotide <u>sequence</u> of interest to a neuronal target site comprising contacting the retroviral <u>vector</u> delivery system according to claim [[21]] <u>26</u>, with said neuronal target site, whereby said neuronal target site is transduced with higher transduction efficiency than <u>in non-neuronal cell a neuronal target site</u> transduced with a retroviral vector delivery system pseudotyped with a <u>VSV-G protein</u>.
- 33. (Currently amended) A method of selectively transducing a neuronal target site comprising contacting a cell with the retroviral <u>vector</u> delivery system of claim 21, or a viral particle obtainable therefrom whereby the neuronal target site is transduced with higher transduction efficiency than in non-neuronal cells a neuronal target site transduced with a <u>retroviral vector delivery system pseudotyped with a VSV-G protein</u>.
- 34. (Currently amended) A method of affecting the infectious profile of a retrovirus or a retroviral vector or a retroviral particle comprising the step of pseudotyping the retrovirus or the retroviral vector or the retroviral particle with a rabies G protein, wherein the pseudotyped retrovirus or the pseudotyped retroviral vector or the pseudotyped retroviral particle selectively transduces human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells transduced with a retrovirus or a retroviral vector or a retroviral particle pseudotyped with a VSV-G protein.

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- 35. (Currently amended) A method of affecting the host range and/or cell tropism of a retrovirus or a retroviral vector or a retroviral particle comprising the step[[s]] of pseudotyping the retrovirus or the retroviral vector or the retroviral particle with a rabies G protein, wherein the pseudotyped retrovirus or the pseudotyped retroviral vector or the pseudotyped retroviral particle selectively transduces human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells neuronal cells transduced with a retrovirus or a retroviral vector or a retroviral particle pseudotyped with a VSV-G protein.
- 36. (Currently amended) A retrovirus or a retroviral vector or a retroviral particle pseudotyped with a rabies G protein, wherein the retrovirus or the retroviral vector or the retroviral particle selectively transduces human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells neuronal cells transduced with a retrovirus or a retroviral vector or a retroviral particle pseudotyped with a VSV-G protein.
- 37. (Currently amended) A retroviral <u>vector</u> delivery system comprising a heterologous *env* region, wherein the heterologous *env* region comprises at least a part of a nucleotide sequence eoding for encoding a rabies G protein and wherein the retroviral <u>vector</u> delivery system selectively transduces human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells neuronal cells transduced with a retrovirus or a retroviral vector or a retroviral particle pseudotyped with a VSV-G protein.
- 38. (Currently amended) A retroviral <u>vector</u> delivery system comprising a heterolgous *env* region, wherein the heterolgous *env* region comprises a nucleotide sequence eoding for encoding a rabies G protein and wherein the retroviral <u>vector delivery</u> system selectively transduces human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells transduced with a retrovirus or a retroviral vector or a retroviral particle pseudotyped with a VSV-G protein.
- 39. (Currently amended) A retrovirus or retroviral vector or retroviral particle pseudotyped with a rabies G protein, wherein the retrovirus, retroviral vector or retroviral particle selectively transduces human target cells with higher transduction efficiencies in neuronal cells than in non-neuronal cells neuronal cells transduced with a retrovirus or a retroviral vector or a retroviral particle pseudotyped with a VSV-G protein.
- 40. (New) A method of selectively delivering a nucleotide sequence of interest to a neuronal target site comprising contacting a neuronal target cell with a retroviral vector delivery

system pseudotyped with a rabies G protein, mutant, variant, derivative, or fragment thereof; wherein said retroviral vector delivery system comprises at least one nucleotide sequence of interest, and wherein said retroviral vector delivery system transduces said neuronal target site with higher transduction efficiency than a neuronal target site transduced with a retroviral vector delivery system pseudotyped with a VSV-G protein.

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